

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/026322

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B60R13/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B60R B32B B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 11, 5 November 2003 (2003-11-05) -& JP 2003 212056 A (NISSAN MOTOR CO LTD), 30 July 2003 (2003-07-30) abstract	1
X	EP 0 995 667 A (MERITOR AUTOMOTIVE GMBH) 26 April 2000 (2000-04-26) column 14, line 25 - line 31	1,6
X	US 5 016 936 A (GOODRICH DAVID) 21 May 1991 (1991-05-21) the whole document	1,4,6
X	DE 299 18 214 U (ALUSUISSE KAPA GMBH) 13 January 2000 (2000-01-13) the whole document	1,3,6
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

17 November 2004

Date of mailing of the international search report

30/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Busuiocescu, B

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/026322

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 068 034 A (SEGAWA MASAHIRO ET AL) 10 January 1978 (1978-01-10)	1,3-6
Y	the whole document	2,7
Y	EP 0 412 346 A (GEN ELECTRIC) 13 February 1991 (1991-02-13) column 9, line 1 - line 56	2,7
A	EP 0 640 467 A (GEN ELECTRIC) 1 March 1995 (1995-03-01)	

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/026322

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2003212056	A	30-07-2003	NONE		
EP 0995667	A	26-04-2000	AT	228455 T	15-12-2002
			BR	9905100 A	29-08-2000
			DE	59903532 D1	09-01-2003
			EP	1193163 A2	03-04-2002
			EP	0995667 A1	26-04-2000
			ES	2188079 T3	16-06-2003
			JP	2000128021 A	09-05-2000
			KR	2000029149 A	25-05-2000
			US	6499797 B1	31-12-2002
US 5016936	A	21-05-1991	NONE		
DE 29918214	U	13-01-2000	DE	29918214 U1	13-01-2000
US 4068034	A	10-01-1978	NONE		
EP 0412346	A	13-02-1991	US	4983247 A	08-01-1991
			DE	69018894 D1	01-06-1995
			EP	0412346 A2	13-02-1991
			JP	1904752 C	08-02-1995
			JP	3099812 A	25-04-1991
			JP	6028868 B	20-04-1994
EP 0640467	A	01-03-1995	US	5499441 A	19-03-1996
			EP	0640467 A1	01-03-1995
			JP	7164462 A	27-06-1995